

WHAT IS CLAIMED IS:

1. Applicator device for a printing/varnishing unit in a processing machine with a printing cylinder with at least one cylinder channel and at least one applicator roller associated with the printing cylinder, characterized in that applicator roller (5, 6, 7) comprises a roller core (12), in that a compressible layer (13) of a cellular foamed material is arranged concentrically and firmly adhered onto roller core (12) and in that an elastic cover layer (14) carrying the medium to be processed is arranged firmly adhered onto compressible layer (13).

2. Applicator roller according to Claim 1, characterized in that applicator roller (5, 6, 7) is a moisture-applicator roller (5) in contact with printing cylinder (1).

3. Applicator roller according to Claim 1, characterized in that applicator roller (5, 6, 7) is at least one ink-applicator roller (6) in contact with printing cylinder (1).

4. Applicator roller according to Claim 1 and 3, characterized in that several ink-applicator rollers (6) are associated with printing cylinder (1) and in that at least the first and second applicator rollers (6) in the direction of rotation of printing cylinder (1) are in contact with a friction roller (8).

5. Applicator roller according to Claim 1, characterized in that applicator roller (5, 6, 7) is a varnish-applicator roller (7) in contact with printing cylinder (1).

6. Applicator roller according to Claim 1, characterized in that compressible layer (13) of applicator roller (5, 6, 7) is an open-pore foamed material.

7. Applicator roller according to Claim 1, characterized in that compressible layer (13) of applicator roller (5, 6, 7) is a closed-pore foamed material.

8. Applicator roller according to Claim 1, characterized in that compressible layer (13) of applicator roller (5, 6, 7) comprises a combination of open-pore and closed-pore foamed material.

9. Applicator roller according to Claim 1 and 7, characterized in that compressible layer (13) of applicator roller (5, 6, 7) comprises air or gas inclusions.

10. Applicator roller according to at least Claim 1, characterized in that applicator roller (5, 6, 7) can be pulled in the form of a casing onto roller core (12) as a sleeve, compressible layer (13) being concentrically arranged on a casing and cover layer (14) being arranged on compressible layer (13).

11. Applicator roller according to at least Claim 1 and 10, characterized in that applicator roller (5, 6, 7) comprises a barrier layer (15) between roller core (12) and compressible layer (13) or between the casing and compressible layer (13).

12. Applicator roller according to at least Claim 1, characterized in that layer (13) is arranged firmly adhered onto roller core (12) by means of a first vulcanization and cover layer (14) is arranged firmly adhered onto layer (13) by means of a second vulcanization.